

SMF-19S001-12 DATA SHEET

WR-19 Waveguide Section 12 Inch Length Straight Using UG383/U-Mod Flange With a 40 GHz to 60 GHz Frequency Range in Instrumentation Grade

Fairview Microwave carries a wide variety of waveguide sections ranging from WR-12 to WR-137. These waveguide sections include grooved and non-grooved designs. Standard lengths of our waveguide sections include 3", 6", 9", and 12" (custom lengths available upon request). For ease of identification, our commercial grade waveguide sections are painted grey while our instrumentation grade waveguide sections were designed with precision tolerances as tight as $\pm 0.001"$ and were constructed of a high grade oxygen free copper to ensure repeatable RF performance.



Description	Min	Тур	Max	Units
Frequency Range	40		60	GHz
VSWR			1.06:1	
Insertion Loss			0.44 [1.44] dB	/ft [dB/m]

^{*} Values at 25°C, sea level

Mechanical Specifications

Waveguide Size WR-19

Waveguide Design Instrumentation Grade

Section Length 12 in [304.8 mm]

Flange 1

Interface UG383/U-Mod

Material Oxygen Free Hard Copper Plating Hard Gold over Copper Flash

Waveguide

Interface WR-19

Material Oxygen Free Hard Copper
Plating Hard Gold over Copper Flash

Flange 2

Interface UG383/U-Mod

Material Oxygen Free Hard Copper Plating Hard Gold over Copper Flash

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant Yes

Plotted and Other Data

Notes:

Values at 25 °C, sea level



Features:

- Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- Wide variety of flange types, including grooved and non-grooved designs
- Custom lengths available upon request
- Precision waveguide mechanical tolerances as tight as ±0.001"
- Comprehensive waveguide offering also includes Bends, Filters, Terminations, and Waveguide to Coaxial Adapters

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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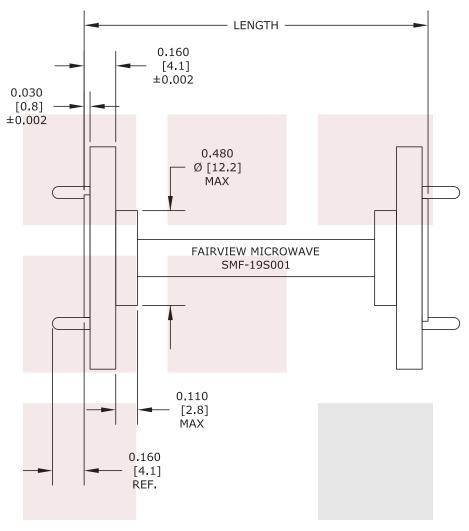
WR-19 Waveguide Section 12 Inch Length Straight Using UG383/U-Mod Flange With a 40 GHz to 60 GHz Frequency Range in Instrumentation Grade from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-19 Waveguide Section 12 Inch Length Straight Using UG383/U-Mod Flange With a 40 GHz to 60 GHz Frequency Range in Instrumentation Grade SMF-19S001-12

URL: http://www.fairviewmicrowave.com/wr-19-waveguide-section-ug383-mod-flange-40-60-ghz-smf-19s001-12-p.aspx





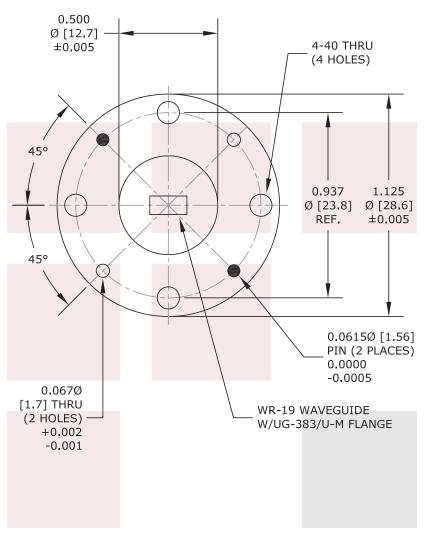


WR-19	
PN	Length
SMF-19S001-3	3 in.
SMF-19S001-6	6 in.
SMF-19S001-9	9 in.
SMF-19S001-12	12 in.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
WR-19 Waveguide Section 12 Inch Length Straight Using UG383/U-Mod Flange With a 40 GHz to 60 GHz Frequency Range in Instrumentation Grade	DWG NO SMF-19S001			CAGE CODE 3FKR5		
	CAD FILE 100614	SHEET	SCALE	N/A	SIZE A	2233







WR-19	
PN	Length
SMF-19S001-3	3 in.
SMF-19S001-6	6 in.
SMF-19S001-9	9 in.
SMF-19S001-12	12 in.

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WR-19 Waveguide Section 12 Inch Length Straight Using UG383/U-Mod Flange With a 40 GHz to 60 GHz Frequency Range in Instrumentation Grade	DWG NO SMF-19S001				CAGE CODE 3FKR5		
	CAD FILE	100614	SHEET	SCAL	E N/A	SIZE A	2233